

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF101623\  
 Data File : BF135799.D  
 Acq On : 17 Oct 2023 02:59  
 Operator : CG\JU  
 Sample : 04854-01  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Oct 17 04:12:27 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF101323.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Oct 17 01:22:00 2023  
 Response via : Initial Calibration

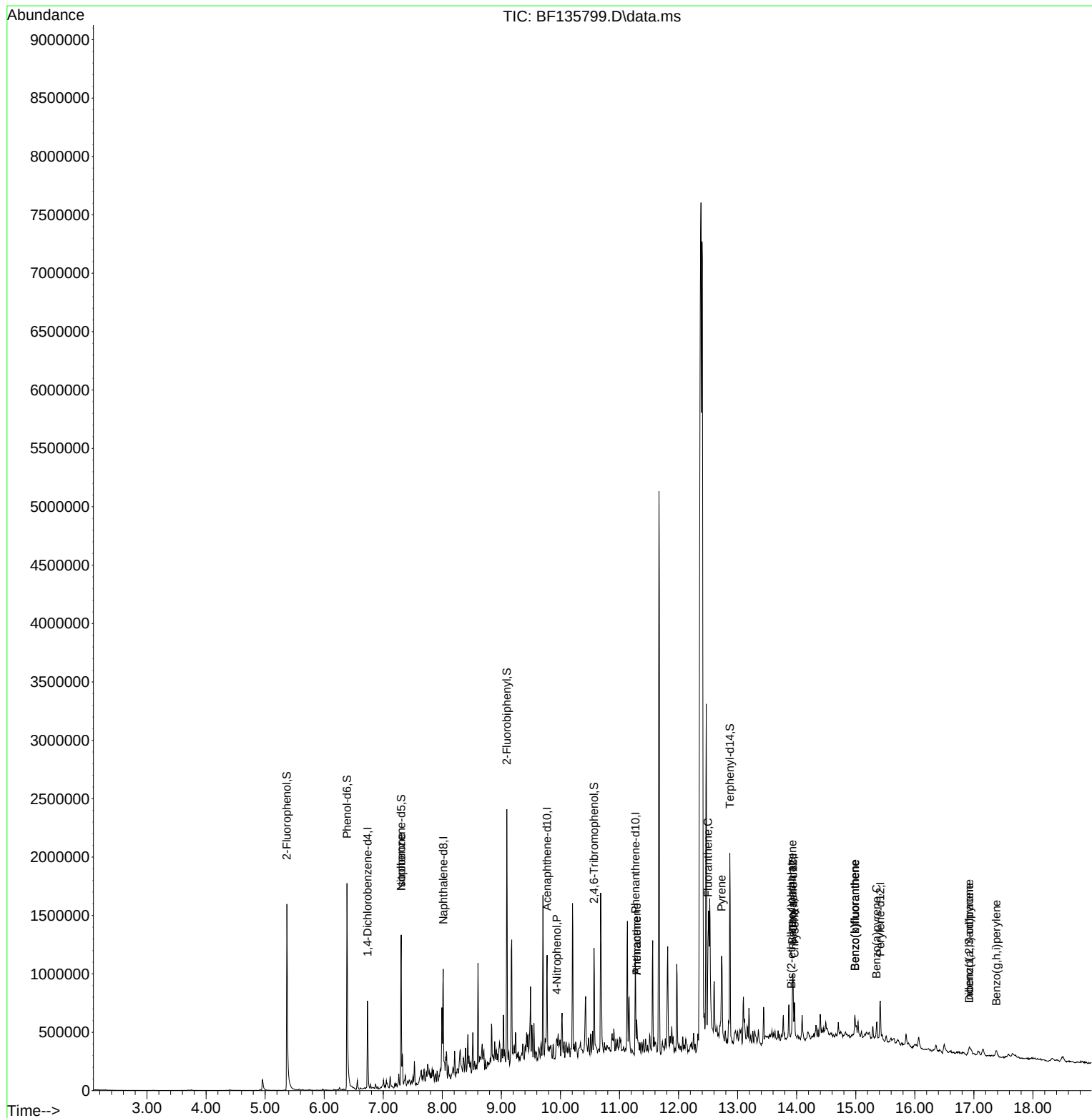
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.734  | 152  | 107697   | 20.000 | ng    | -0.01    |
| 21) Naphthalene-d8            | 8.016  | 136  | 383064   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10          | 9.775  | 164  | 161890   | 20.000 | ng    | -0.01    |
| 64) Phenanthrene-d10          | 11.269 | 188  | 279802   | 20.000 | ng    | -0.01    |
| 76) Chrysene-d12              | 13.939 | 240  | 169642   | 20.000 | ng    | -0.01    |
| 86) Perylene-d12              | 15.415 | 264  | 138482   | 20.000 | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.369  | 112  | 500370   | 74.698 | ng    | 0.00     |
| 7) Phenol-d6                  | 6.387  | 99   | 615390   | 73.629 | ng    | -0.01    |
| 23) Nitrobenzene-d5           | 7.304  | 82   | 370021   | 53.127 | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol      | 10.569 | 330  | 108910   | 70.108 | ng    | -0.02    |
| 45) 2-Fluorobiphenyl          | 9.092  | 172  | 611986   | 59.105 | ng    | -0.01    |
| 79) Terphenyl-d14             | 12.869 | 244  | 547908   | 59.813 | ng    | -0.01    |
|                               |        |      |          |        |       |          |
| Target Compounds              |        |      |          |        |       | Qvalue   |
| 25) Isophorone                | 7.304  | 82   | 368030   | 28.009 | ng    | # 66     |
| 56) 4-Nitrophenol             | 9.939  | 139  | 617      | 5.928  | ng    | # 1      |
| 71) Phenanthrene              | 11.292 | 178  | 97326    | 7.261  | ng    | 96       |
| 72) Anthracene                | 11.292 | 178  | 97326    | 7.007  | ng    | 97       |
| 75) Fluoranthene              | 12.498 | 202  | 233009   | 15.663 | ng    | 98       |
| 78) Pyrene                    | 12.727 | 202  | 267479   | 19.842 | ng    | 99       |
| 81) Benzo(a)anthracene        | 13.927 | 228  | 121505   | 10.904 | ng    | 97       |
| 83) Chrysene                  | 13.963 | 228  | 116225   | 10.769 | ng    | 97       |
| 84) Bis(2-ethylhexyl)phtha... | 13.910 | 149  | 17033    | 2.121  | ng    | # 97     |
| 87) Indeno(1,2,3-cd)pyrene    | 16.921 | 276  | 42810    | 5.674  | ng    | 95       |
| 88) Benzo(b)fluoranthene      | 14.986 | 252  | 141001   | 18.193 | ng    | # 94     |
| 89) Benzo(k)fluoranthene      | 14.986 | 252  | 141001   | 18.739 | ng    | # 93     |
| 90) Benzo(a)pyrene            | 15.351 | 252  | 76817    | 10.540 | ng    | # 95     |
| 91) Dibenzo(a,h)anthracene    | 16.921 | 278  | 12608    | 2.038  | ng    | # 75     |
| 92) Benzo(g,h,i)perylene      | 17.380 | 276  | 40538    | 6.380  | ng    | 95       |
| -----                         |        |      |          |        |       |          |

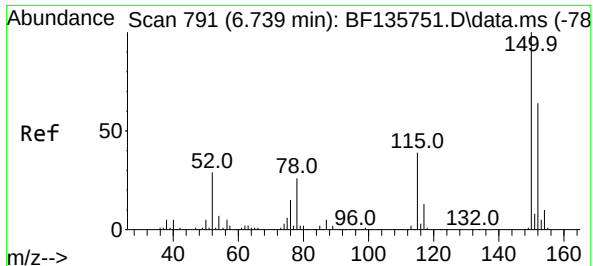
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :

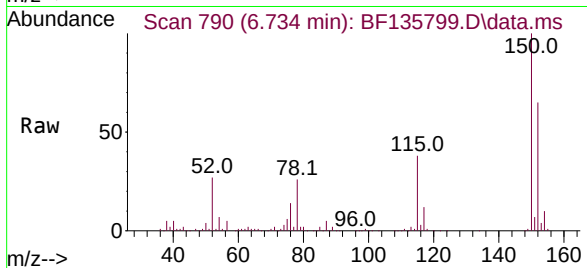
Quant Time: Oct 17 04:12:27 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF101323.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Oct 17 01:22:00 2023  
Response via : Initial Calibration



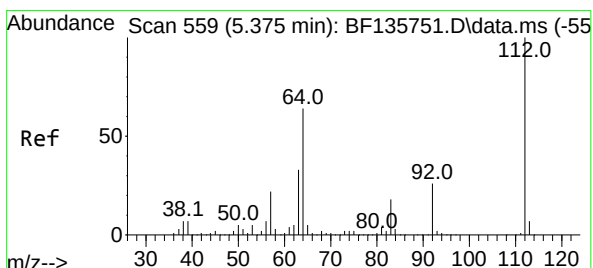
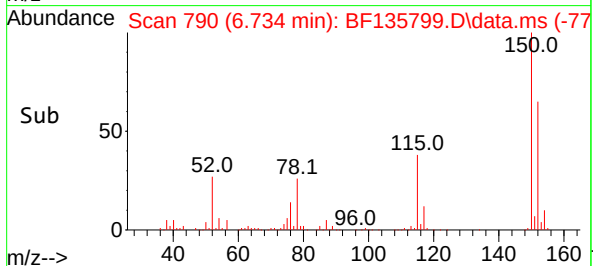
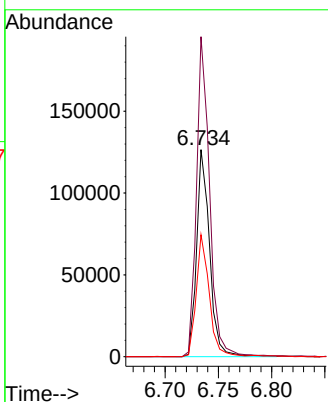


#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.734 min Scan# 791  
Delta R.T. -0.012 min  
Lab File: BF135799.D  
Acq: 17 Oct 2023 02:59

Instrument :  
BNA\_F  
ClientSampleId :

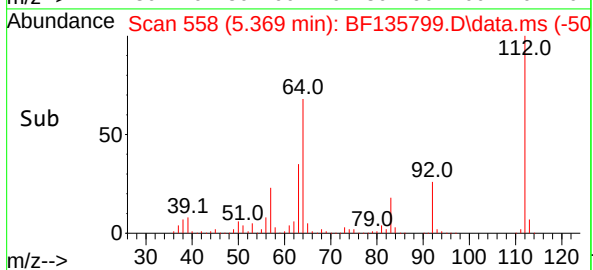
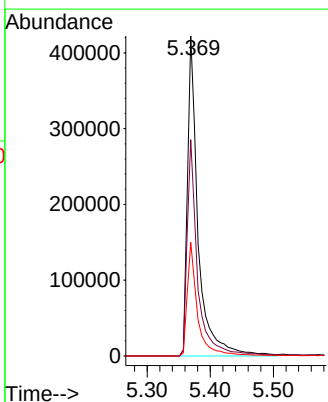
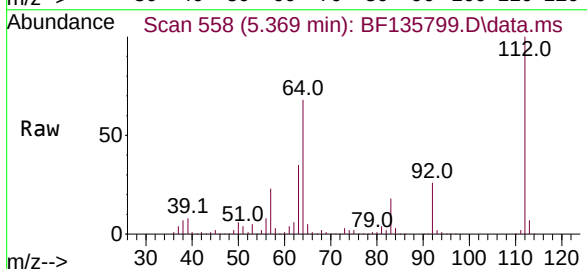


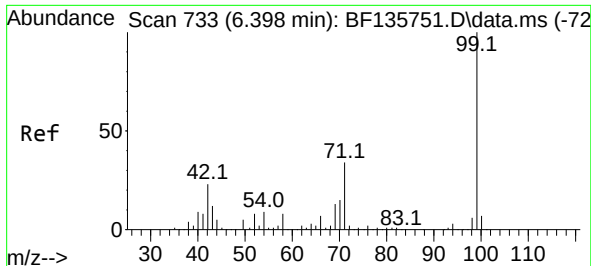
Tgt Ion:152 Resp: 107697  
Ion Ratio Lower Upper  
152 100  
150 154.6 124.5 186.7  
115 58.9 49.0 73.4



#5  
2-Fluorophenol  
Concen: 74.698 ng  
RT: 5.369 min Scan# 558  
Delta R.T. -0.006 min  
Lab File: BF135799.D  
Acq: 17 Oct 2023 02:59

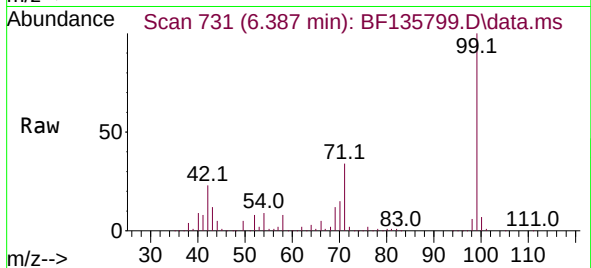
Tgt Ion:112 Resp: 500370  
Ion Ratio Lower Upper  
112 100  
64 67.6 51.2 76.8  
63 35.5 26.1 39.1



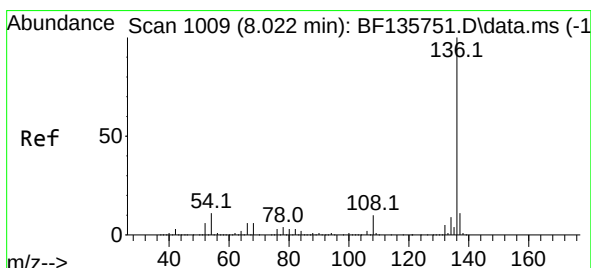
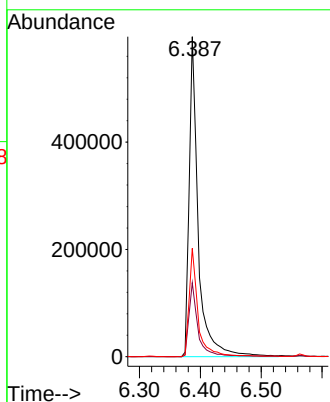
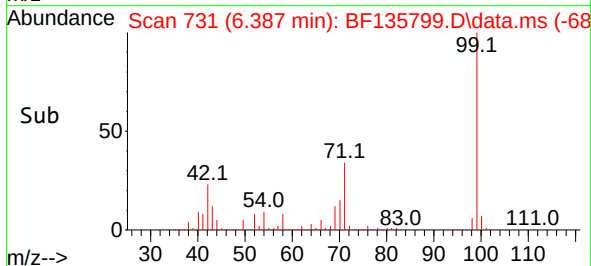


#7  
Phenol-d6  
Concen: 73.629 ng  
RT: 6.387 min Scan# 71  
Delta R.T. -0.012 min  
Lab File: BF135799.D  
Acq: 17 Oct 2023 02:59

Instrument :  
BNA\_F  
ClientSampleId :

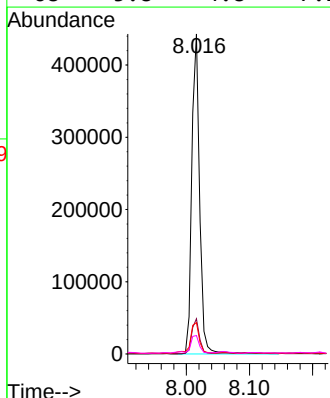
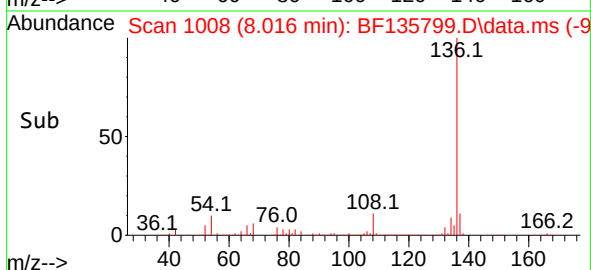
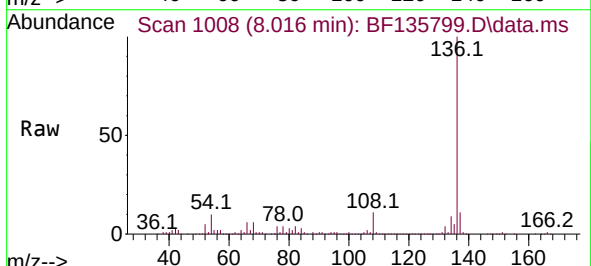


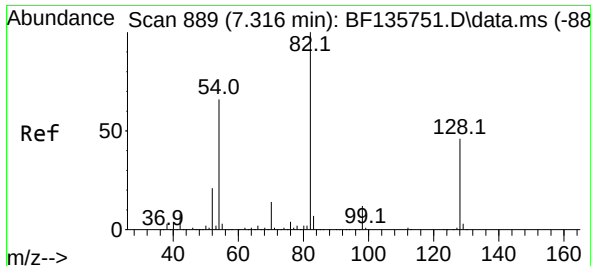
Tgt Ion: 99 Resp: 615390  
Ion Ratio Lower Upper  
99 100  
42 23.1 18.4 27.6  
71 33.8 27.2 40.8



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.016 min Scan# 1008  
Delta R.T. -0.006 min  
Lab File: BF135799.D  
Acq: 17 Oct 2023 02:59

Tgt Ion:136 Resp: 383064  
Ion Ratio Lower Upper  
136 100  
137 11.0 8.6 12.8  
54 9.8 8.5 12.7  
68 5.8 4.8 7.2

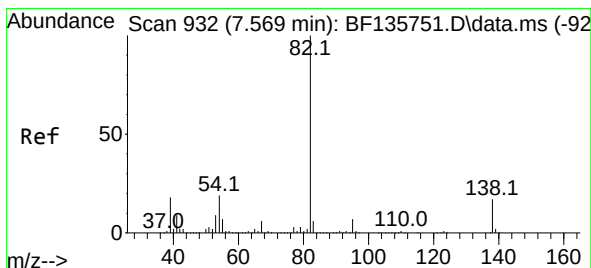
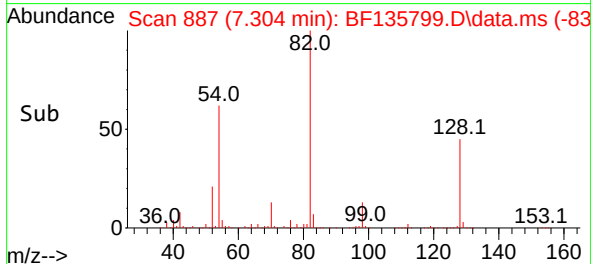
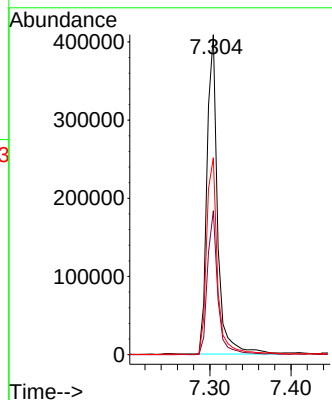
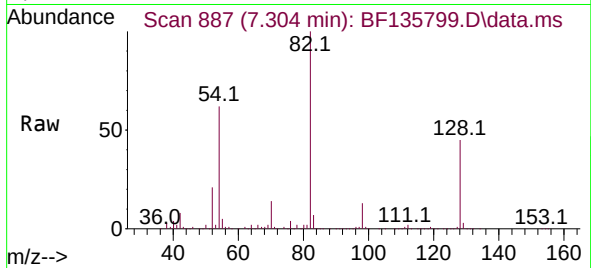




#23  
Nitrobenzene-d5  
Concen: 53.127 ng  
RT: 7.304 min Scan# 889  
Delta R.T. -0.012 min  
Lab File: BF135799.D  
Acq: 17 Oct 2023 02:59

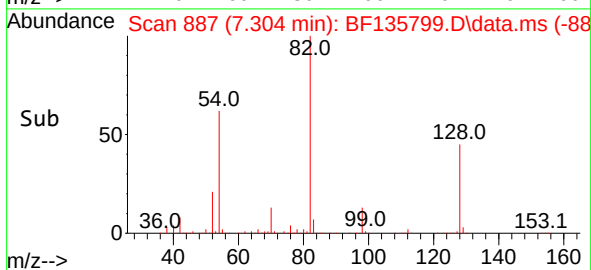
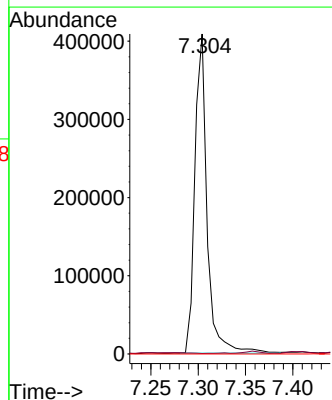
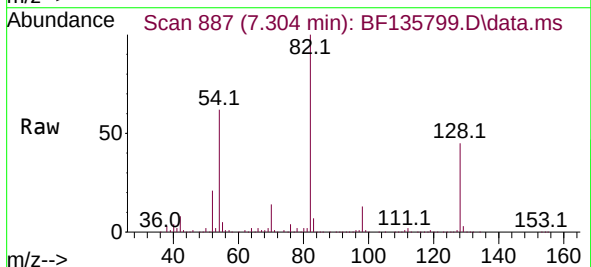
Instrument :  
BNA\_F  
ClientSampleId :

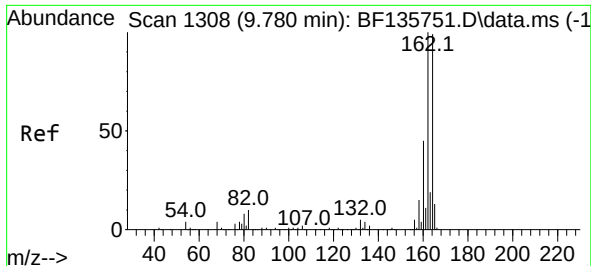
Tgt Ion: 82 Resp: 370021  
Ion Ratio Lower Upper  
82 100  
128 45.0 37.0 55.6  
54 61.6 52.8 79.2



#25  
Isophorone  
Concen: 28.009 ng  
RT: 7.304 min Scan# 887  
Delta R.T. -0.265 min  
Lab File: BF135799.D  
Acq: 17 Oct 2023 02:59

Tgt Ion: 82 Resp: 368030  
Ion Ratio Lower Upper  
82 100  
95 0.2 5.5 8.3#  
138 0.0 13.9 20.9#





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.775 min Scan# 1

Delta R.T. -0.012 min

Lab File: BF135799.D

Acq: 17 Oct 2023 02:59

Instrument :

BNA\_F

ClientSampleId :

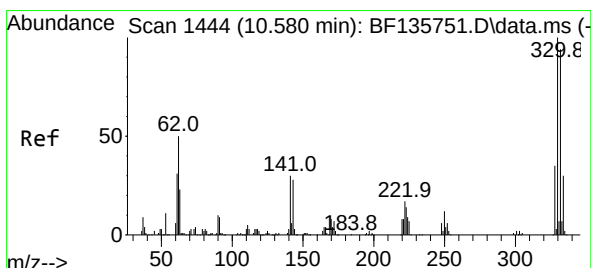
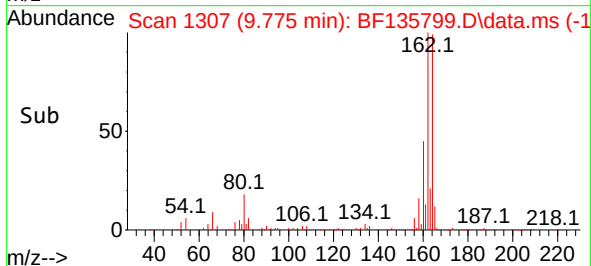
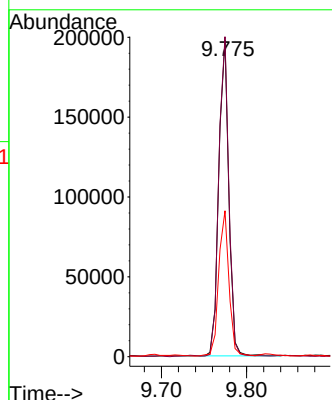
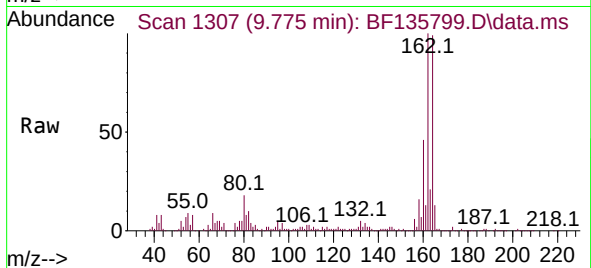
Tgt Ion:164 Resp: 161890

Ion Ratio Lower Upper

164 100

162 101.1 80.8 121.2

160 46.1 36.6 54.8



#42

2,4,6-Tribromophenol

Concen: 70.108 ng

RT: 10.569 min Scan# 1442

Delta R.T. -0.018 min

Lab File: BF135799.D

Acq: 17 Oct 2023 02:59

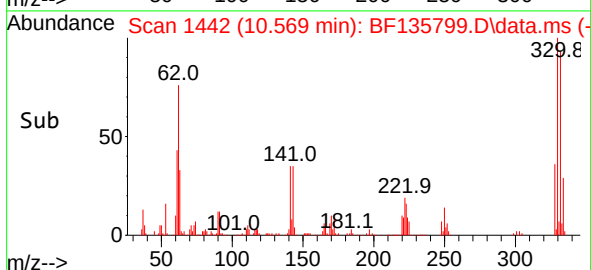
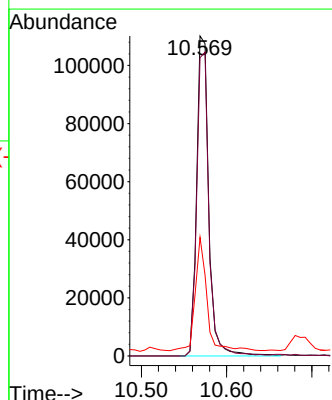
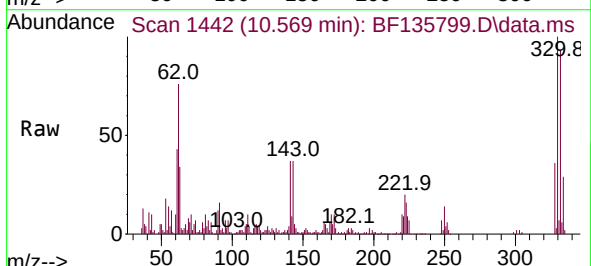
Tgt Ion:330 Resp: 108910

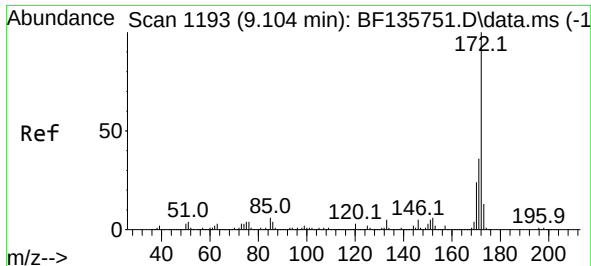
Ion Ratio Lower Upper

330 100

332 95.2 75.0 112.4

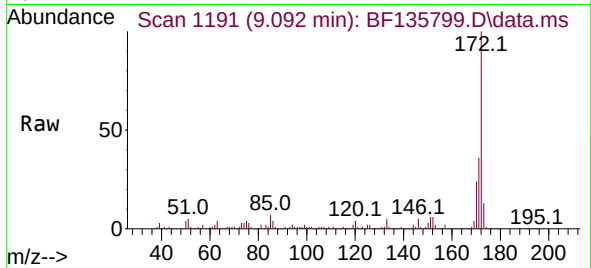
141 33.7 25.8 38.6



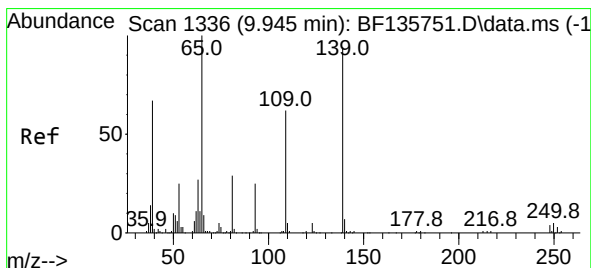
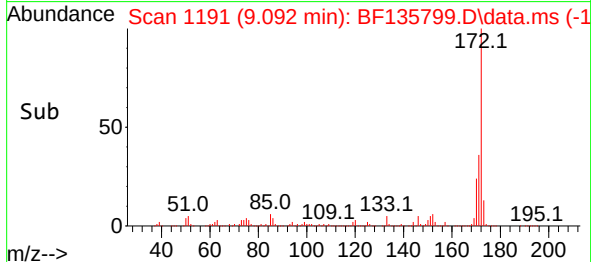
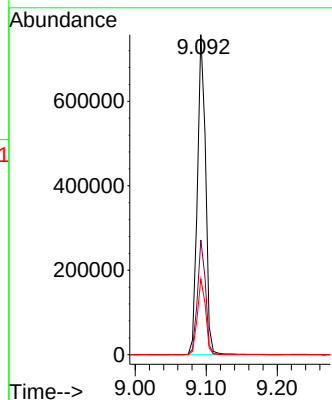


#45  
2-Fluorobiphenyl  
Concen: 59.105 ng  
RT: 9.092 min Scan# 1191  
Delta R.T. -0.012 min  
Lab File: BF135799.D  
Acq: 17 Oct 2023 02:59

Instrument :  
BNA\_F  
ClientSampleId :

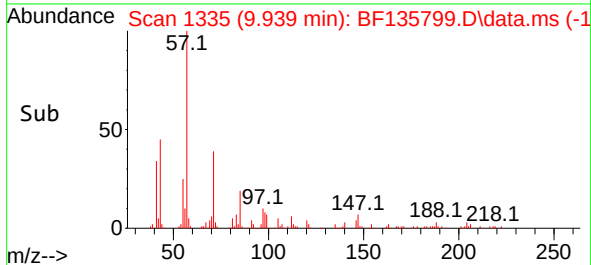
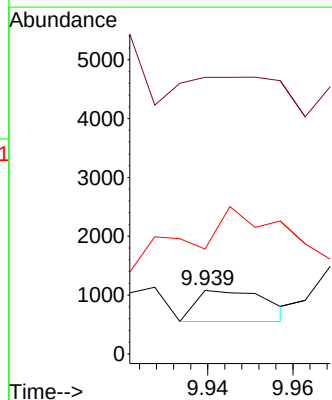
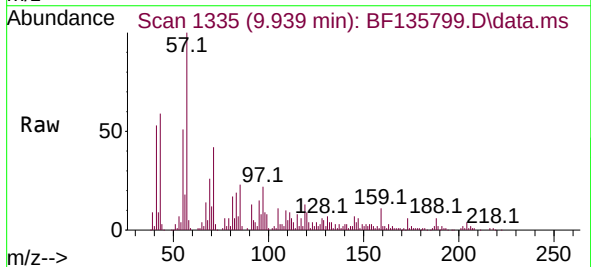


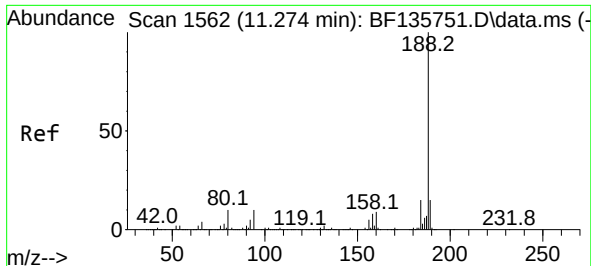
Tgt Ion:172 Resp: 611986  
Ion Ratio Lower Upper  
172 100  
171 35.9 28.4 42.6  
170 23.7 18.8 28.2



#56  
4-Nitrophenol  
Concen: 5.928 ng  
RT: 9.939 min Scan# 1335  
Delta R.T. -0.006 min  
Lab File: BF135799.D  
Acq: 17 Oct 2023 02:59

Tgt Ion:139 Resp: 617  
Ion Ratio Lower Upper  
139 100  
109 435.4 45.6 85.6#  
65 165.3 87.5 127.5#

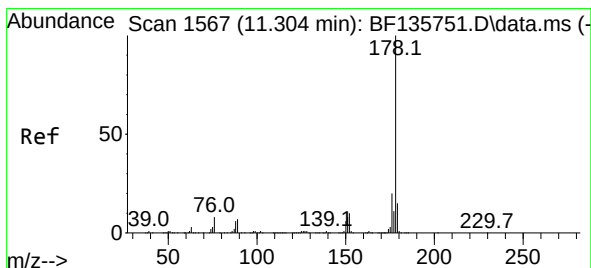
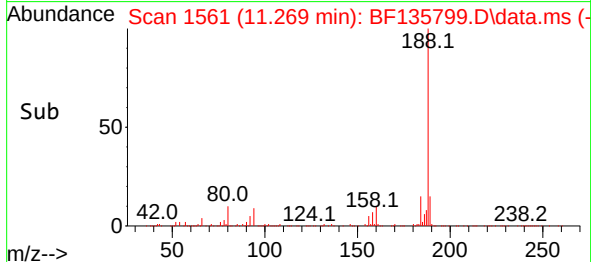
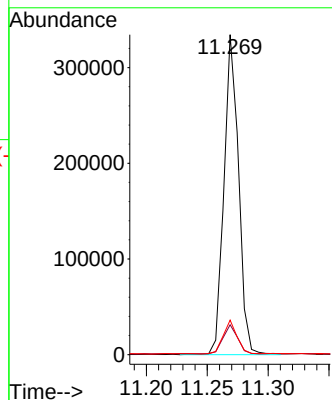
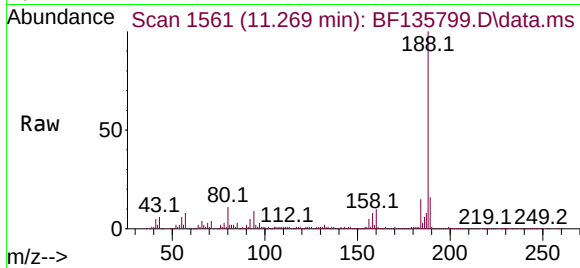




#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.269 min Scan# 1561  
Delta R.T. -0.012 min  
Lab File: BF135799.D  
Acq: 17 Oct 2023 02:59

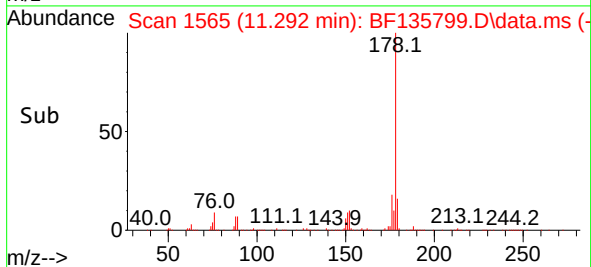
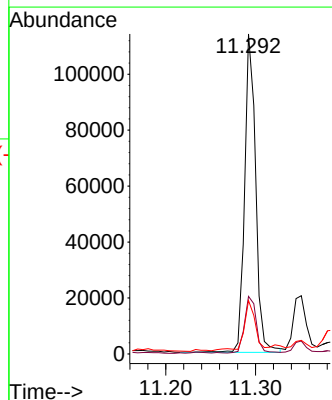
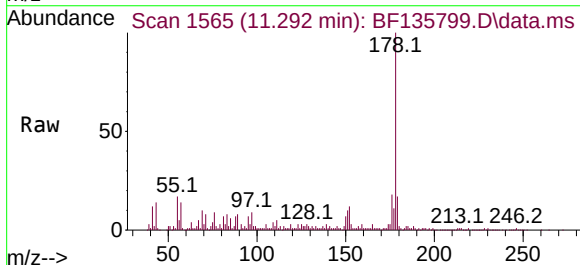
Instrument :  
BNA\_F  
ClientSampleId :

Tgt Ion:188 Resp: 279802  
Ion Ratio Lower Upper  
188 100  
94 9.3 8.0 12.0  
80 10.8 8.3 12.5

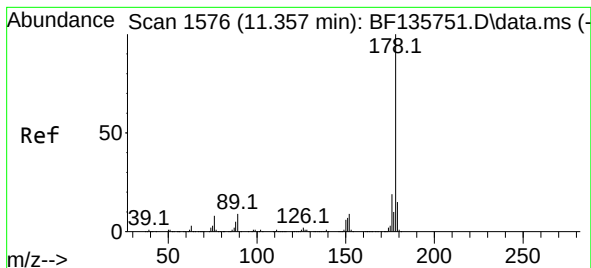


#71  
Phenanthrene  
Concen: 7.261 ng  
RT: 11.292 min Scan# 1565  
Delta R.T. -0.012 min  
Lab File: BF135799.D  
Acq: 17 Oct 2023 02:59

Tgt Ion:178 Resp: 97326  
Ion Ratio Lower Upper  
178 100  
176 18.0 16.0 24.0  
179 16.7 12.2 18.4







#72

Anthracene

Concen: 7.007 ng

RT: 11.292 min Scan# 1565

Delta R.T. -0.065 min

Lab File: BF135799.D

Acq: 17 Oct 2023 02:59

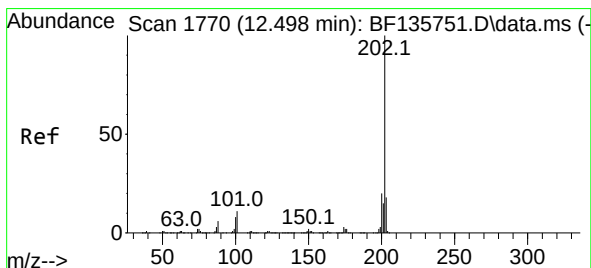
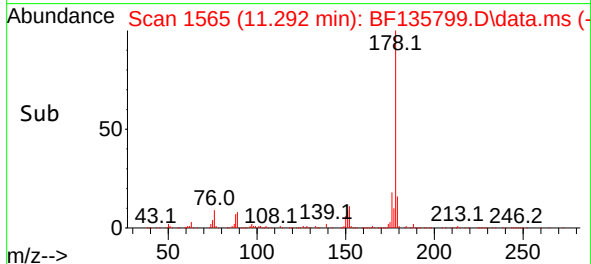
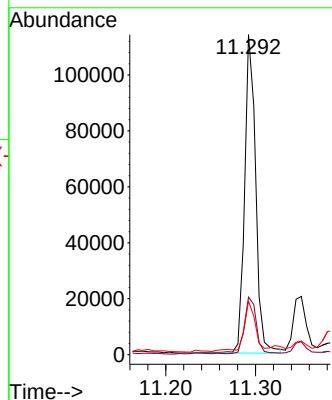
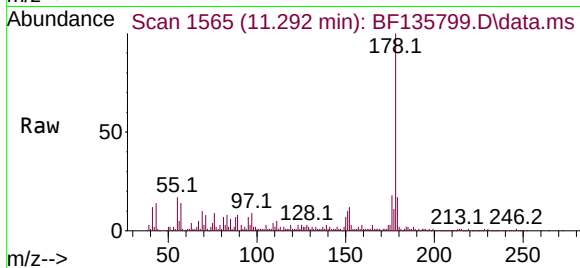
Instrument :

BNA\_F

ClientSampleId :

Tgt Ion:178 Resp: 97326

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 176 | 18.0  | 15.1  | 22.7  |
| 179 | 16.7  | 12.3  | 18.5  |



#75

Fluoranthene

Concen: 15.663 ng

RT: 12.498 min Scan# 1770

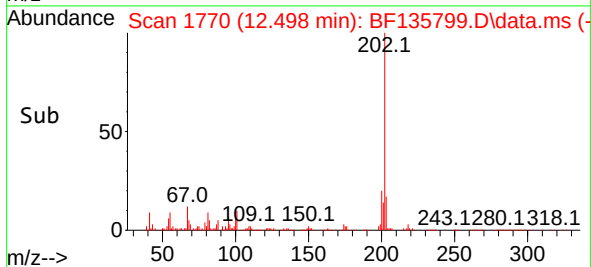
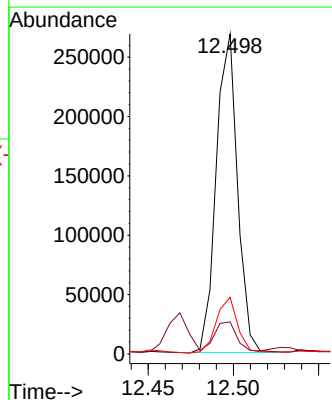
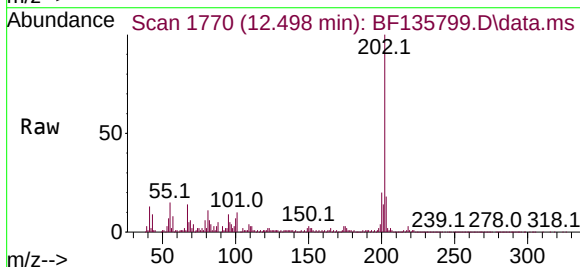
Delta R.T. -0.006 min

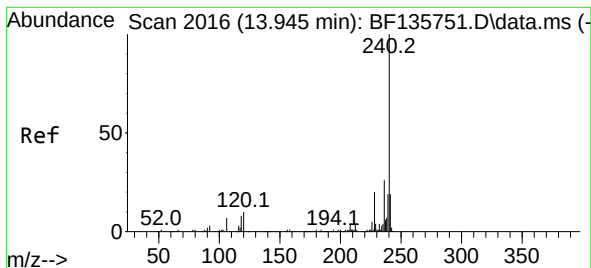
Lab File: BF135799.D

Acq: 17 Oct 2023 02:59

Tgt Ion:202 Resp: 233009

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 202 | 100   |       |       |
| 101 | 10.0  | 0.0   | 31.5  |
| 203 | 17.7  | 0.0   | 38.3  |





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.939 min Scan# 2016

Delta R.T. -0.012 min

Lab File: BF135799.D

Acq: 17 Oct 2023 02:59

Instrument :

BNA\_F

ClientSampleId :

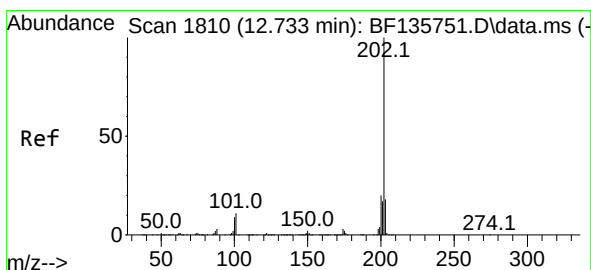
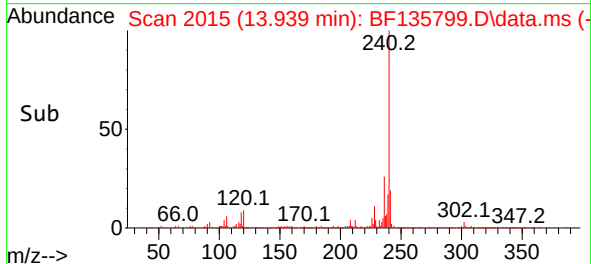
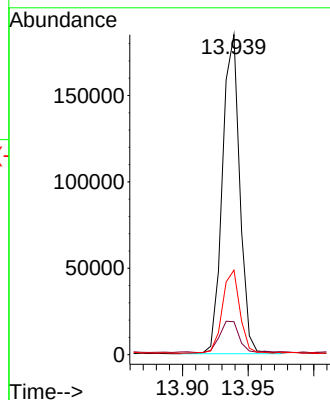
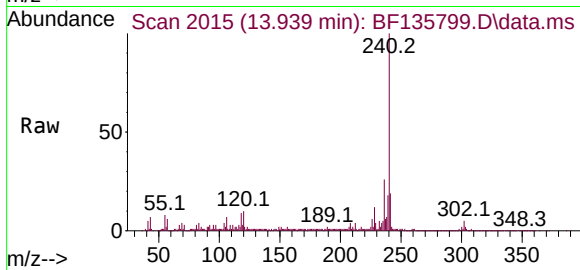
Tgt Ion:240 Resp: 169642

Ion Ratio Lower Upper

240 100

120 10.3 8.2 12.2

236 26.4 21.2 31.8



#78

Pyrene

Concen: 19.842 ng

RT: 12.727 min Scan# 1809

Delta R.T. -0.006 min

Lab File: BF135799.D

Acq: 17 Oct 2023 02:59

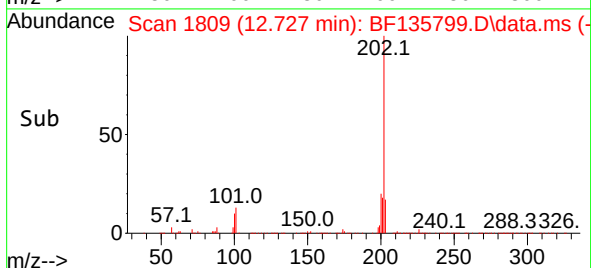
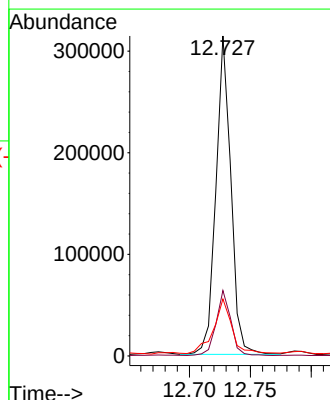
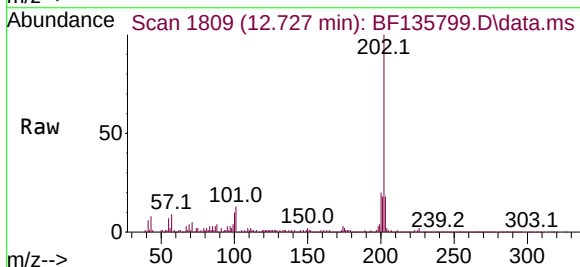
Tgt Ion:202 Resp: 267479

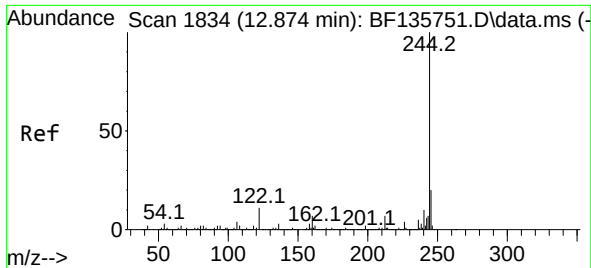
Ion Ratio Lower Upper

202 100

200 20.5 16.1 24.1

203 17.8 14.2 21.2

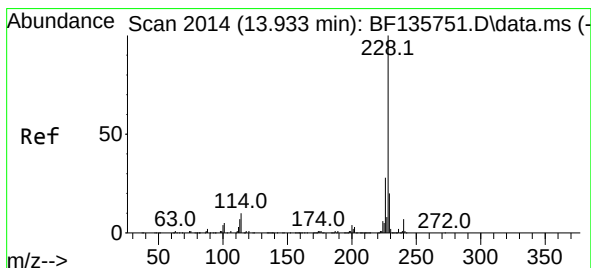
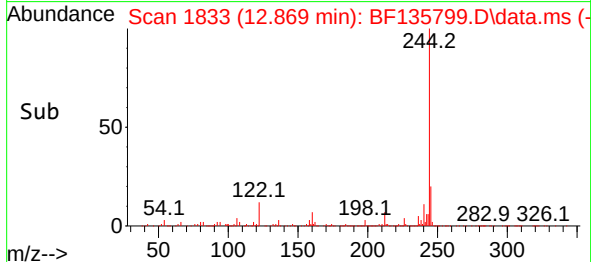
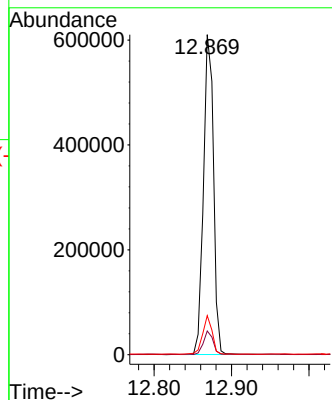
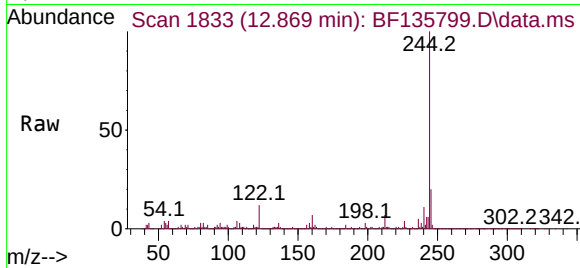




#79  
 Terphenyl-d14  
 Concen: 59.813 ng  
 RT: 12.869 min Scan# 1833  
 Delta R.T. -0.012 min  
 Lab File: BF135799.D  
 Acq: 17 Oct 2023 02:59

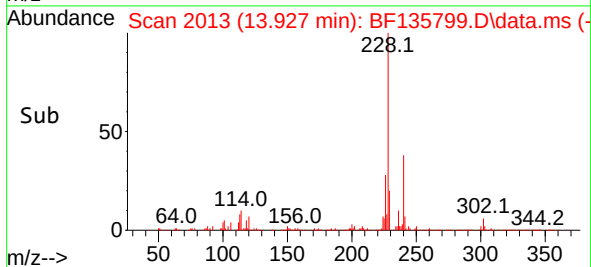
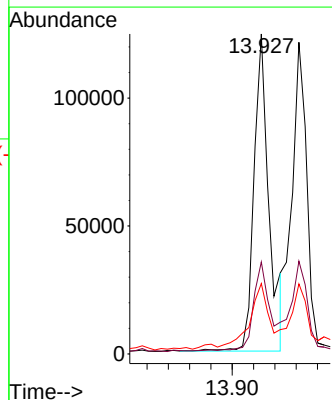
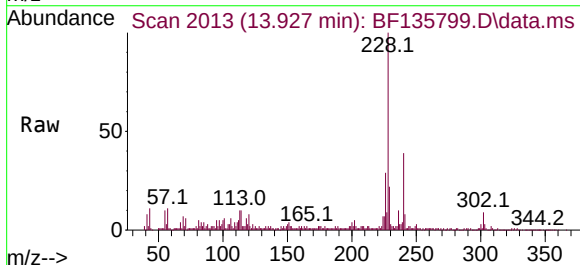
Instrument :  
 BNA\_F  
 ClientSampleId :

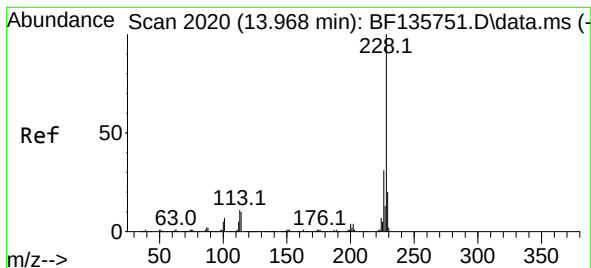
Tgt Ion:244 Resp: 547908  
 Ion Ratio Lower Upper  
 244 100  
 212 7.4 5.6 8.4  
 122 12.2 9.0 13.6



#81  
 Benzo(a)anthracene  
 Concen: 10.904 ng  
 RT: 13.927 min Scan# 2013  
 Delta R.T. -0.012 min  
 Lab File: BF135799.D  
 Acq: 17 Oct 2023 02:59

Tgt Ion:228 Resp: 121505  
 Ion Ratio Lower Upper  
 228 100  
 226 28.8 22.2 33.2  
 229 22.0 16.1 24.1





#83

Chrysene

Concen: 10.769 ng

RT: 13.963 min Scan# 20

Delta R.T. -0.012 min

Lab File: BF135799.D

Acq: 17 Oct 2023 02:59

Instrument :

BNA\_F

ClientSampleId :

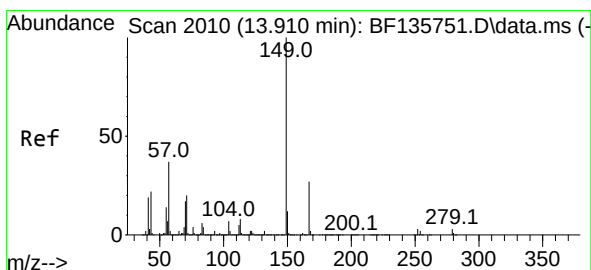
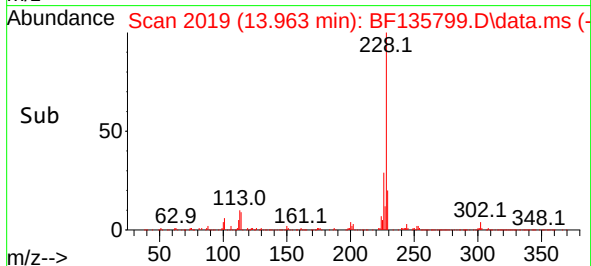
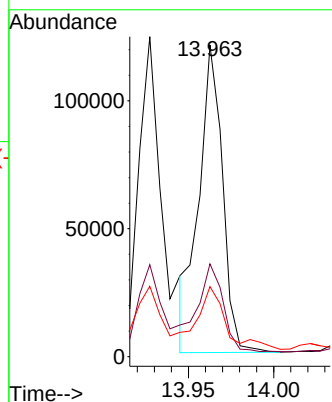
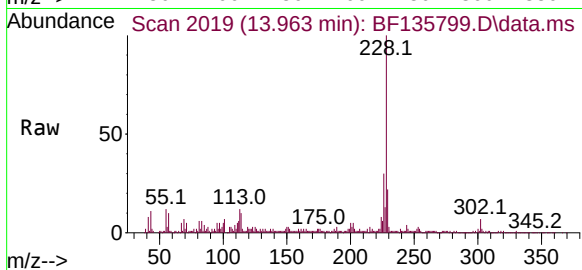
Tgt Ion:228 Resp: 116225

Ion Ratio Lower Upper

228 100

226 29.8 24.4 36.6

229 22.5 15.7 23.5



#84

Bis(2-ethylhexyl)phthalate

Concen: 2.121 ng

RT: 13.910 min Scan# 2010

Delta R.T. -0.006 min

Lab File: BF135799.D

Acq: 17 Oct 2023 02:59

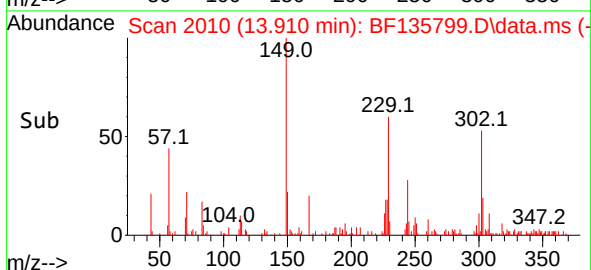
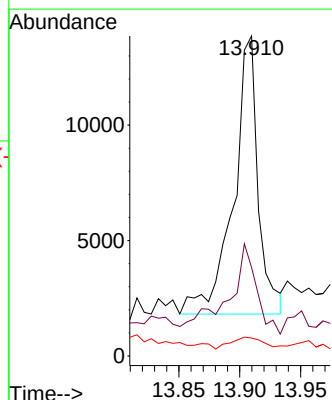
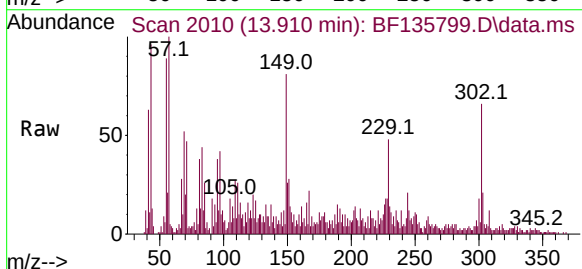
Tgt Ion:149 Resp: 17033

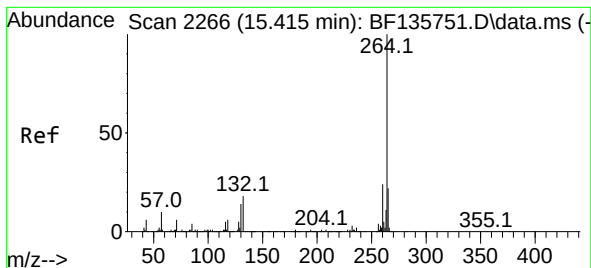
Ion Ratio Lower Upper

149 100

167 27.7 21.3 31.9

279 5.6 2.7 4.1#





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.415 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF135799.D

Acq: 17 Oct 2023 02:59

Instrument :

BNA\_F

ClientSampleId :

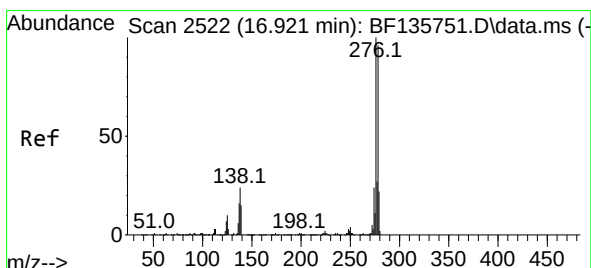
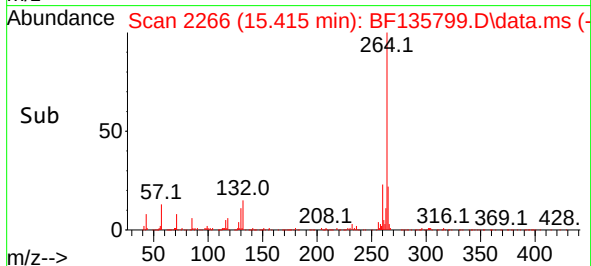
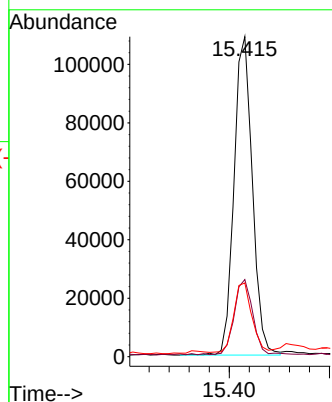
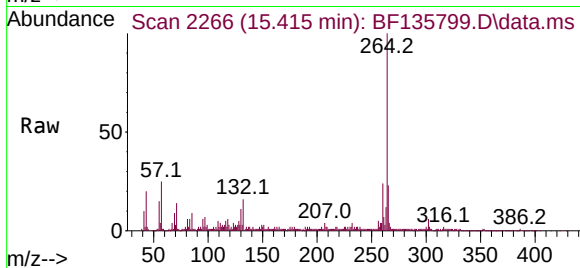
Tgt Ion:264 Resp: 138482

Ion Ratio Lower Upper

264 100

260 24.1 19.2 28.8

265 23.0 17.4 26.2



#87

Indeno(1,2,3-cd)pyrene

Concen: 5.674 ng

RT: 16.921 min Scan# 2522

Delta R.T. -0.012 min

Lab File: BF135799.D

Acq: 17 Oct 2023 02:59

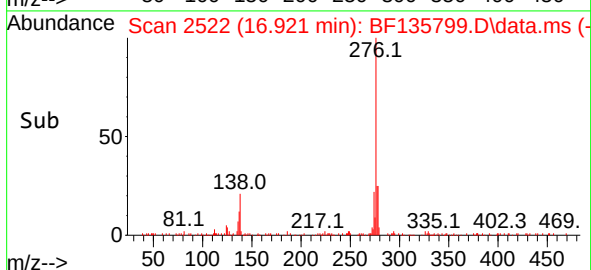
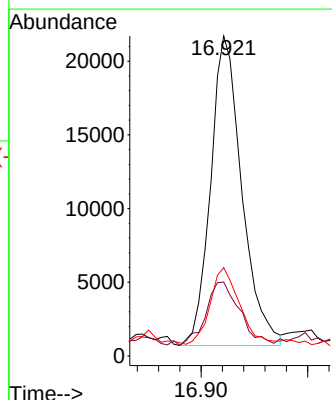
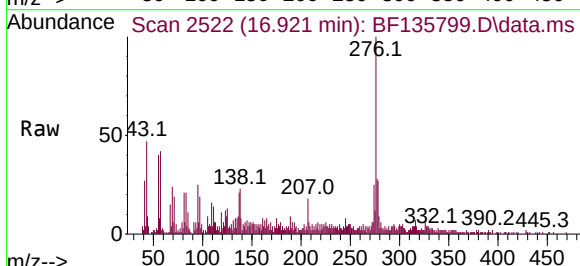
Tgt Ion:276 Resp: 42810

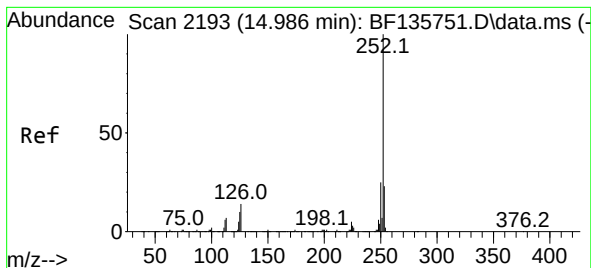
Ion Ratio Lower Upper

276 100

138 21.9 19.8 29.6

277 23.2 20.2 30.4





#88

Benzo(b)fluoranthene

Concen: 18.193 ng

RT: 14.986 min Scan# 2193

Delta R.T. -0.006 min

Lab File: BF135799.D

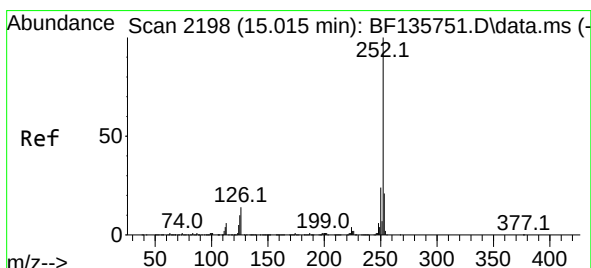
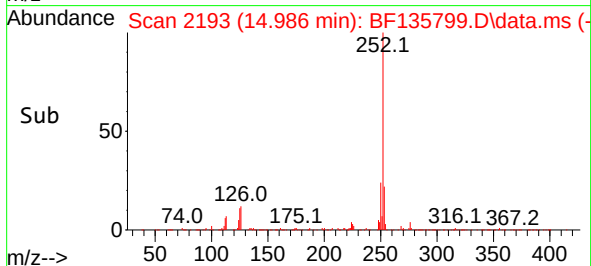
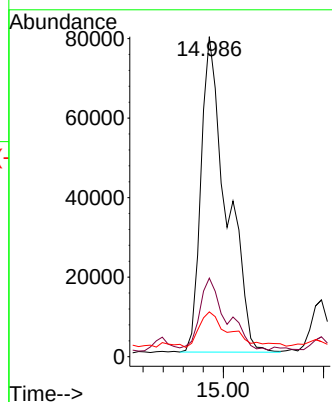
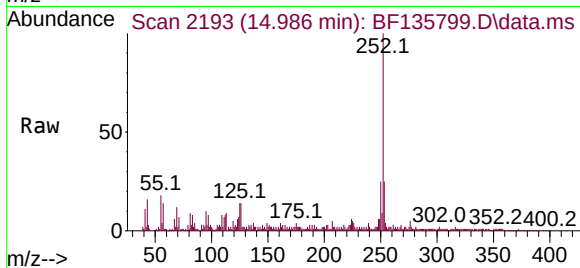
Acq: 17 Oct 2023 02:59

Instrument :

BNA\_F

ClientSampleId :

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 141001 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 24.5  | 18.2  | 27.2   |
| 125       | 14.0  | 8.2   | 12.2#  |



#89

Benzo(k)fluoranthene

Concen: 18.739 ng

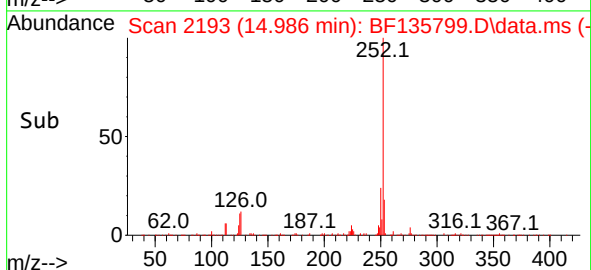
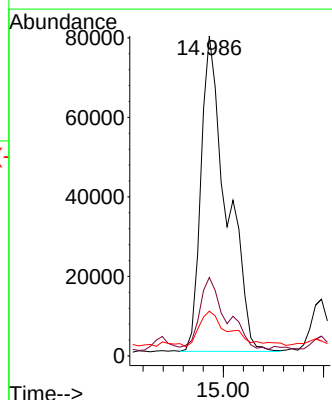
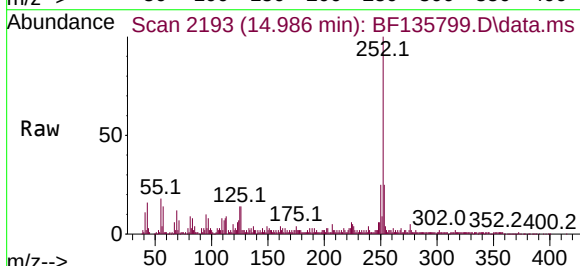
RT: 14.986 min Scan# 2193

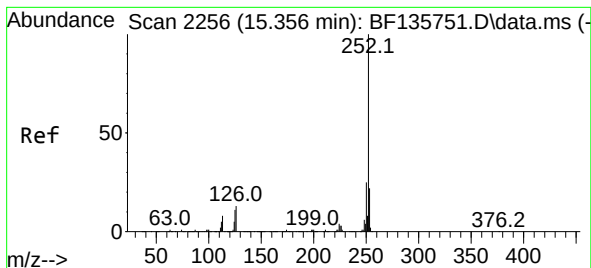
Delta R.T. -0.035 min

Lab File: BF135799.D

Acq: 17 Oct 2023 02:59

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 141001 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 24.5  | 17.4  | 26.0   |
| 125       | 14.0  | 8.3   | 12.5#  |





#90

Benzo(a)pyrene

Concen: 10.540 ng

RT: 15.351 min Scan# 21

Delta R.T. -0.012 min

Lab File: BF135799.D

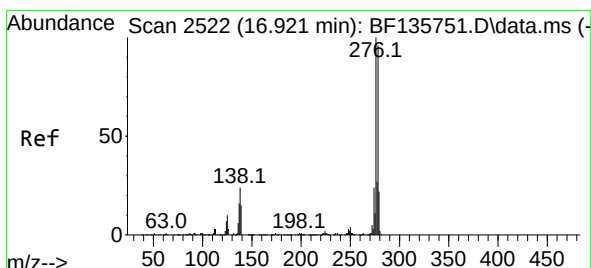
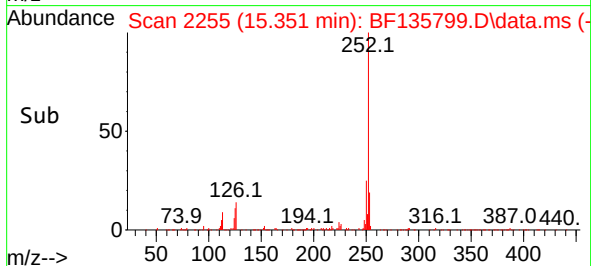
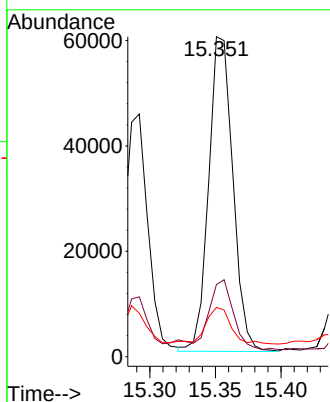
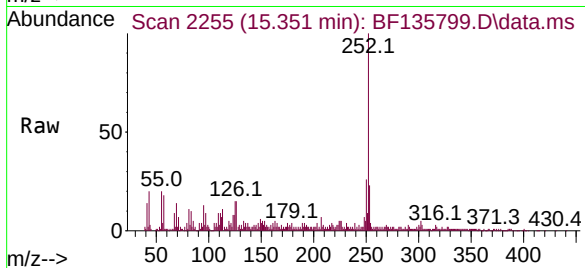
Acq: 17 Oct 2023 02:59

Instrument :

BNA\_F

ClientSampleId :

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:252 | Resp: | 76817     |
| Ion Ratio   | Lower | Upper     |
| 252         | 100   |           |
| 253         | 22.6  | 17.4 26.2 |
| 125         | 15.4  | 8.8 13.2# |



#91

Dibenzo(a,h)anthracene

Concen: 2.038 ng

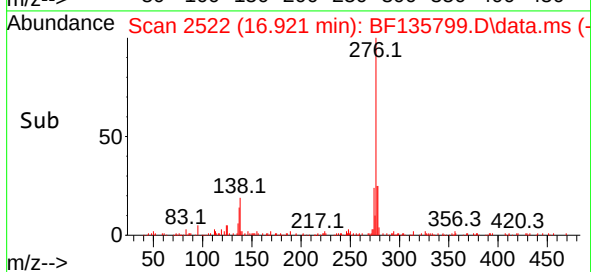
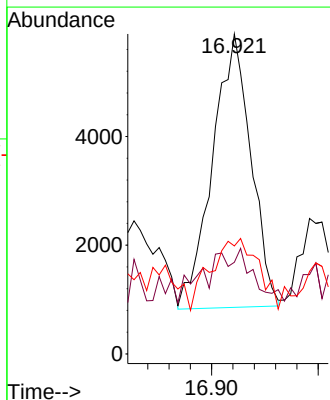
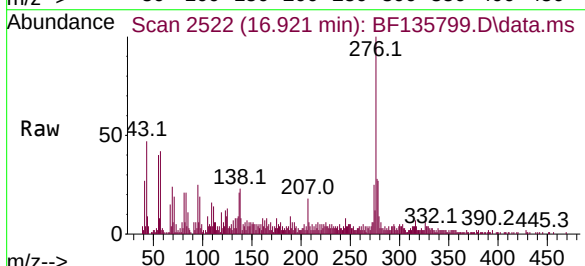
RT: 16.921 min Scan# 2522

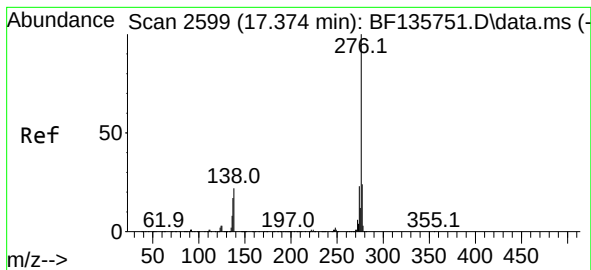
Delta R.T. -0.018 min

Lab File: BF135799.D

Acq: 17 Oct 2023 02:59

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:278 | Resp: | 12608      |
| Ion Ratio   | Lower | Upper      |
| 278         | 100   |            |
| 139         | 28.6  | 12.5 18.7# |
| 279         | 33.8  | 18.6 27.8# |





#92

Benzo(g,h,i)perylene

Concen: 6.380 ng

RT: 17.380 min Scan# 2

Delta R.T. -0.006 min

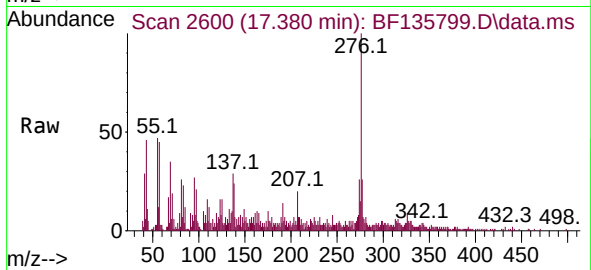
Lab File: BF135799.D

Acq: 17 Oct 2023 02:59

Instrument :

BNA\_F

ClientSampleId :



Tgt Ion:276 Resp: 40538

Ion Ratio Lower Upper

276 100

277 26.2 19.4 29.2

138 24.4 17.3 25.9

